ELSEVIER

Carbohydrate Research 267 (1995) C17–C19

CARBOHYDRATE RESEARCH

CONTENTS

Sucrose analogues modified at position 3: chemoenzymatic synthesis and inhibition studies of dextransucrases
C. Simiand, E. Samain, O.R. Martin and H. Driguez (Grenoble, France) 1

The reaction of D-glucose with aminoguanidine
J. Hirsch (Columbia, MO, USA), E. Petrakova (Bethesda, MD, USA), M.S. Feather and C.L. Barnes (Columbia, MO, USA) 17

Preparation of $6^1,6^2$-, $6^1,6^3$-, $6^1,6^4$-, and $6^1,6^5$-di-*O*-(α-D-glucopyranosyl)cyclomalto-octaoses
T. Tanimoto, T. Sakaki and K. Koizumi (Nishinomiya, Japan) 27

Synthesis of regioisomeric methyl α-L-arabinofuranobiosides
Y. Kawabata, S. Kaneko, I. Kusakabe and Y. Gama (Ibaraki, Japan) 39

Synthesis and characterization of cyclomaltoheptaose-based metal chelants as probes for intestinal permeability
A. Capretta, R.B. Maharajh and R.A. Bell (Hamilton, Canada) 49

Selective alkaline oxidative degradation of mono- and di-saccharides by hydrogen peroxide using borate as catalyst and protecting group
R. Van den Berg, J.A. Peters and H. Van Bekkum (Delft, Netherlands) 65

Eleven newly characterized xyloglucan oligoglycosyl alditols: the specific effects of sidechain structure and location on ^{1}H NMR chemical shifts
W.S. York, G. Impallomeni, M. Hisamatsu, P. Albersheim and A.G. Darvill (Athens, GA, USA) 79

Iduronic acid-rich proteoglycans (PG_{IdoA}) and human post-burn scar maturation: isolation and characterization
H.G. Garg (Boston, MA, USA), J.W. Siebert (New York, NY, USA), A. Garg (Boston, MA, USA) and P.J. Neame (Tampa Unit, FL, USA) 105

A multichambered apparatus for HF solvolysis experiments: reaction of cellulose HF solvolysis products with acetic acid and acetic anhydride
B.A. Bergamaschi and J.I. Hedges (Seattle, WA, USA) 115

Structure of the O10 antigen of *Stenotrophomonas (Xanthomonas) maltophilia*
A.M. Winn, A.W. Miller and S.G. Wilkinson (Hull, United Kingdom) 127

Binding mode of N,N',N'',N'''-tetraacetylchitotetraitol to hen egg white lysozyme
T. Fukamizo, T. Ohkawa, Y. Ikeda (Nara, Japan), T. Torikata (Kumamoto, Japan) and S. Goto (Nara, Japan) 135

Notes

Capillary electrophoresis for monitoring chemical reactions: sulfation and synthetic manipulation of sulfated carbohydrates
R.J. Kerns, I.R. Vlahov and R.J. Linhardt (Iowa City, IA, USA) 143

2-(Dimethyloctylsilyl)ethyl lactoside: a versatile intermediate for chemical and enzymic ganglioside synthesis
P. Stangier, M.M. Palcic and D.R. Bundle (Edmonton, Canada) 153

Imaging xanthan gum by atomic force microscopy
A.R. Kirby, A.P. Gunning and V.J. Morris (Norwich, United Kingdom) 161

Announcement C1

Regular papers

^{13}C CP MAS and high-resolution ^{1}H, ^{15}N NMR study of ureido sugars
I. Wawer, B. Piekarska-Bartoszewicz and A. Temeriusz (Warsaw, Poland). 167

Isobutylidenation of 1-*C*-substituted polyols. Attempted extension of the NMR shift rule via the chemical shift difference of their two methyl groups
E.S.H. El Ashry, H. Abdel Hamid and M. El Habrouk (Alexandria, Egypt) 177

Novel synthesis of 3-acetamido-3-deoxy- and 4-acetamido-4-deoxy-D-altrose from levoglucosenone using regioselective *cis*-oxyamination
K. Matsumoto, T. Ebata and H. Matsushita (Kanagawa, Japan). 187

An alternative strategy for the synthesis of 3′-azido-2′,3′-dideoxy-4′-thionucleosides starting from D-xylose
B. Tber, N.-E. Fahmi, G. Ronco, P. Villa (Amiens, France), D.F. Ewing and G. Mackenzie (Hull, United Kingdom) 203

Nucleophilic addition reactions of 1,5-anhydro-4,6-*O*-benzylidene-2,3-dideoxy-3-*C*-nitro-D-*erythro*-hex-2-enitol and its 5a-carba derivative
A. Seta, S. Ito, K. Tokuda, T. Tamura (Yokohama, Japan), Y. Konda (Tokyo, Japan) and T. Sakakibara (Yokohama, Japan) 217

A new method of orthoesterification, under kinetic control, at non-anomeric positions. Application to the D-glucose and D-mannose series and selective hydrolysis of the corresponding orthoesters
M. Bouchra, P. Calinaud and J. Gelas (Aubière, France). 227

Structural and functional-group tuning in the design of neuraminidase inhibitors
S. Sabesan, S. Neira and Z. Wasserman (Wilmington, DE, USA) 239

The structure of the O-specific polysaccharide from *Escherichia coli* O113 lipopolysaccharide
H. Parolis and L.A.S. Parolis (Grahamstown, South Africa) 263

Molecular characterization of polysaccharides dissolved in Me_2NAc–LiCl by gel-permeation chromatography
A.M. Striegel and J.D. Timpa (New Orleans, LA, USA) 271

Analysis of reducing end-groups produced by enzymatic scission of glycosidic linkages in *O*-methylcellulose
A. Nishimura, Y. Matsumoto, G. Meshitsuka and A. Ishizu (Tokyo, Japan) 291

Notes

Assignment of ^{1}H and ^{13}C NMR chemical shifts of a D-mannan composed of α-(1 → 2) and α-(1 → 6) linkages obtained from *Candida kefyr* IFO 0586 strain
H. Kobayashi, M. Watanabe, M. Komido, K. Matsuda, T. Ikeda-Hasebe, M. Suzuki, N. Shibata, K. Hisamichi and S. Suzuki (Miyagi, Japan) 299

A novel 4-C-branched sugar from the lipopolysaccharide of the bacterium *Pseudomonas caryophylli*
M. Adinolfi, M.M. Corsaro, C. De Castro, R. Lanzetta, M. Parrilli (Naples, Italy), A. Evidente (Portici, Italy) and P. Lavermicocca (Bari, Italy) 307

The structure of an acidic trisaccharide component from a cell wall polysaccharide preparation of the green alga *Tetraselmis striata* Butcher
B. Becker (Köln, Germany), J.P.M. Lommerse (Utrecht, Netherlands), M. Melkonian (Köln, Germany), J.P. Kamerling and J.F.G. Vliegenthart (Utrecht, Netherlands) 313

Preliminary communication

7-*O*-Carbamoyl-L-*glycero*-D-*manno*-heptose: a new core constituent in the lipopolysaccharide of *Pseudomonas aeruginosa*
F. Beckmann, H. Moll (Borstel, Germany), K.-E. Jäger (Bochum, Germany) and U. Zähringer (Borstel, Germany) C3

Book reviews C9

Author index C11

Subject index C13

Contents C17